FriendlyShare™

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User's Manual

FriendlyShare Internet Sharing

FriendlyShare™

User's Manual

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FriendlyShare Quick Start Guide

Follow these easy steps to start using FriendlyShare right now!

1) Choose your server Macintosh, following the guidelines on the package: Minimum 120MHz PCI PowerMac, Mac OS 8.1 or better, 32MB RAM.

2) Verify that all of your computers are connected by Ethernet and that the Ethernet is working. Configure your client computers to get their IP addresses via DHCP.

3) Insert the FriendlyShare CD-ROM and run the installer.

4) Restart the server Mac.

5) Locate the FriendlyShare folder on your hard drive and start the FriendlyShare Manager.

6) Configure the following settings:
   a) How do you connect to the Internet.
   b) Which port is used for your ADSL or Cable Modem connection (if any).
   c) Which port connects to your local LAN.

7) Click "Key" and enter the software license key on the yellow sticker found on the CD envelope.

8) Click "Save".

9) Select "Start" from the "Service" menu.

10) You're ready to connect to the Internet from your client machines!

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About This Manual

This section provides an overview of the FriendlyShare Software Installation Manual. It describes chapter contents, document and intended audience.

Chapter Contents

Chapter 1: Describes the concept of creating a Local Area Network.

Chapter 2: Describes the purpose and installation of FriendlyShare, a product designed to allow local area networks to share Internet access through a single network computer acting as a "server" or "gateway" to the Internet.

Chapter 3: Describes how to troubleshoot your FriendlyShare installation, and how to obtain Technical Support.

Chapter 4: Describes how to uninstall FriendlyShare.

Chapter 5: Describes other FriendlyShare features.

Chapter 6: Describes troubleshooting and support.

Document Conventions

The following conventions are used for instructions and information.

Commands: Commands are indicated in **boldface font**.

[**NOTE:** A heavy black arrow is used to call attention to important information.]

Audience

This manual is intended for home users with little or no technical expertise in constructing Local Area Networks (LANs). It assumes a basic working knowledge of the Macintosh operating system.

Table of Contents

Chapter 1	Introduction to Home Networking	1
Chapter 2	Installing FriendlyShare on the Macintosh PowerPC Computer	7
Chapter 3	Configuring the Client Computers	17
Chapter 4	Uninstalling FriendlyShare	21
Chapter 5	Other FriendlyShare Features	23
Chapter 6	Troubleshooting and Support	27

List of Figures and Tables

Figure 1	A basic two-station network using a crossover cable	3
Figure 2	A typical 10BaseT Ethernet network	4
Table 1	TCP/IP Configuration	9

Notes

Use this section to record important information helpful when configuring FriendlyShare internet Sharing.

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Chapter 1: Introduction to Home Networking

Features, Benefits, and Requirements

Welcome to the world of home computer networking. Asanté Technologies offers the home computer owner the means to simply and inexpensively link home computers into a Local Area Network (LAN), enabling the home user to take advantage of the potential offered by shared resources. This potential has, until recently, been available only to the business community due to factors of cost and required technical knowledge. Now Asanté Technologies provides solutions to both of these issues and gives the home computer owner low cost and simple access to these benefits.

There is one very important reason for connecting separate home computers to establish an in-home network: shared resources. An in-home network allows multiple computers to exchange information and share resources (printers, disk drives, Internet connection, etc.). Each of these network implementations has its own unique set of features as well as minimum system requirements.

In the past, Local Area Networks were confined to the business world. The cost of the hardware and software and the complexity of their setup made home LANs difficult for the average home computer user to create. Advances in technology brings the functionality of a corporate LAN into the home without the traditional concerns of the past.

Internet Access

With all of its advantages, a local area network has one drawback. It's local. You are cut off from the rest of the world. Without some connection to the outside, you can only communicate with computers that are part of the local network. It would be nice if you could somehow "link" your home network to the Internet.

Inside the Asanté's FriendlyShare package is a powerful software program that allows an entire network to access the Internet through a single connection. With a modem, ISDN, xDSL or a cable modem connection, an ISP (Internet Service Provider) account, and the FriendlyShare software, you can have one computer act as the "gateway" to the Internet for the other computers in the home. Every computer can have simultaneous access to the Internet, with no complicated network IP addresses to assign or obscure protocols to learn. Just install the software and answer a few

simple questions. Your Internet "gateway" can be up and running in minutes. Internet Connectivity for a network has never been so easy in the past.

[**NOTE:** the hardware and software allow the same ISP account to be shared by multiple users. please check with your ISP for proper usage].

System Requirements

To provide Internet access for your home network you will need a computer with the following to act as a server:

1. Macintosh CPU (PPC required - Will not run on Performa or Nubus PPC systems).
2. 32MB RAM installed.
3. Built-in Ethernet OR free slot for an Ethernet card.
4. A modem, ADSL, ISDN, or cable modem connection.
5. An ISP account.
6. The FriendlyShare software installed and properly configured.

Building a FriendlyNet Network

The FriendlyShare software allows multiple clients in a LAN to share the same Internet account. There are several options available for building a LAN.

Network Options For Your Home Network:

Option 1: 2-Station LAN

Many home networks will consist of 2 computers. To build a 2 station network you will need:

- One Macintosh computer (see above for system requirements) to act as the FriendlyShare Server.
- A client computer with built-in Ethernet OR a free slot for an Ethernet NIC.
- Crossover cable (supplied with FriendlyShare Software.

The Asanté FriendlyShare software package allows both computers to share the same internet connection.

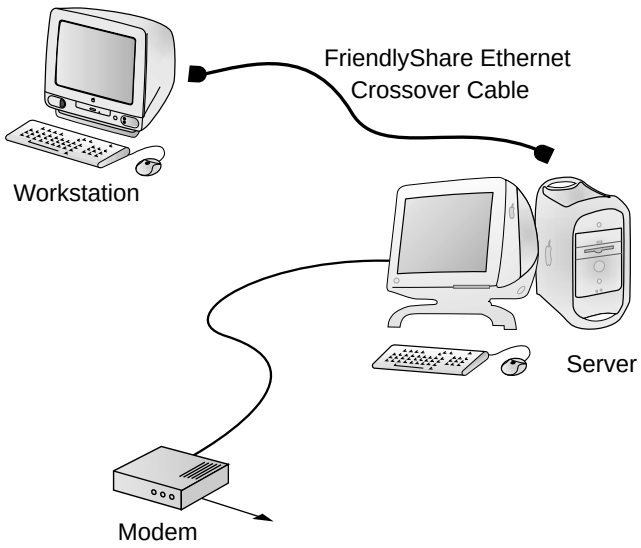


Figure 1: *A basic two-station network using a crossover cable*

Option 2: Multiple Station LAN

The most common network configuration is the traditional 10BaseT Ethernet LAN with multiple workstations connected through a network hub.

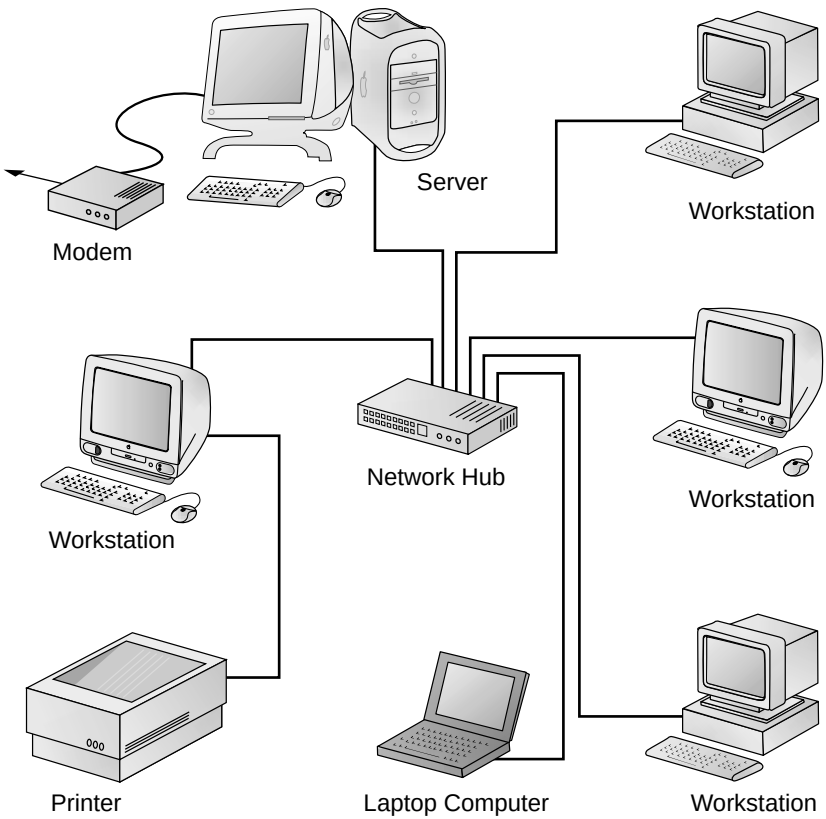


Figure 2. *A typical 10BaseT Ethernet network*

To build a multiple station network you will need:

1. One computer (see above for system requirements) to act as the FriendlyShare Server.
2. Either built-in Ethernet OR a free slot for an Ethernet NIC (Network Interface Card) for each additional computer connected to the LAN.
3. Hub or other Ethernet device with enough free ports to connect all of the workstations together.

4. One Ethernet NIC for each workstation to be connected to the LAN.

[**NOTE:**Some networks also use network peripherals such as printers or other devices. Contact your local Asanté Technologies dealer for more information on how to connect these devices to your LAN.]

Things to Remember

- Before going to the next section, please make a note of the following:
- You must have a Macintosh computer with Mac OS 8.1 or better, 32MB of RAM, an installed Asanté Ethernet card and the capability to connect to the Internet. This computer with FriendlyShare enables a single Internet connection to service the entire network.
- You should also disable the sleep mode on the server. This can be found in the Energy Saver setting of the Control Panel. You will see a setting that says, "Put the system to sleep after it has been idle for". Change the setting by moving the sliding bar to "Never". Also, while still in Energy Saver, you will want to change the settings under Preferences/Server Settings. Click both the "Restart automatically after a power failure" and the "Never put the hard drive to sleep" buttons. Having the server computer in sleep mode will prevent any clients from accessing the Internet.
- You must have an active Internet account.
- For a network to function, there must be two or more computers connected to the network and these systems must be turned on. If one computer is turned on and the other unit(s) are not, there will be no communication between them.
- Each computer in the network requires an Ethernet card. This card must be configured and the device driver installed before it will operate.
- Follow the installation guidelines in this manual carefully. Each step of the process and the order in which it is presented has been carefully chosen to help you perform a smooth, trouble-free installation.

FriendlyShare™ Internet Sharing

Chapter 2: Installing FriendlyShare on Your Macintosh

Introduction

About FriendlyShare

FriendlyShare, from Asanté Technologies, Inc. is a software product that allows multiple users on a local network to share a connection to the Internet through a single machine that acts as the gateway. With FriendlyShare, users on a small network can conveniently share simultaneous Internet access inexpensively. FriendlyShare supports many kinds of Internet connections, including Dial-up Networking (OT/PPP) over a standard analog modem, ISDN, cable modem, or ADSL.

Key Components

FriendlyShare consists of two core applications, FriendlyShare (server) and FriendlyShare Manager (for configuration settings). FriendlyShare is installed on a computer that has access to the Internet via analog modem, ISDN, cable modem, or ADSL. FriendlyShare handles tasks in the background and its operation is transparent to users. The FriendlyShare software manages all aspects of connecting from workstations on the local network to the Internet via an ISP. FriendlyShare Manager allows the user to configure FriendlyShare to match the particular needs and parameters of his/her individual system.

Installation

This section provides instructions for installing FriendlyShare on your network.

To install FriendlyShare, you must complete the following tasks:

- Verify the system requirements for the computer on which you will install the FriendlyShare software.
  1. PowerPC CPU with built-in Ethernet or slot for Ethernet NIC
  2. Mac OS 8.1 or later.
  3. 32 MB RAM built in.
  4. Working connection to the Internet.

- Install the FriendlyShare software on the computer that will act as the server.
- Verify your installation(s) and resolve any open issues.

The rest of this chapter describes how to carry out these tasks.

Setting Up Cable Modems and ADSL:

For FriendlyShare Server workstations that are connected via a cable or ADSL modem, you need two Network Interface Cards (NICs): one for the Internet connection and another to connect to the local network. Using two NICs creates a secure separation between your local network and the Internet and also ensures that local network traffic won't create extra load on the backbone.

Preparing to Install

Before you install the FriendlyShare software, be sure to complete the following tasks:

- **Create Troubleshooting Tool**

  In order to troubleshoot your LAN and Internet connection, you will need to have the "WhatRoute" ping program on each client computer. You can do this by copying the "WhatRoute" program to a floppy diskette, or directly to the hard drive of the client system.

- **Configuring Your Installation**

  During installation, the Setup program assigns TCP/IP settings automatically for each FriendlyShare Manager installation. In most cases, you do not need to change your configuration.

  For the FriendlyShare server machine, the IP address is assigned by your ISP. For the Client workstations, the IP address is assigned dynamically by the built-in FriendlyShare DHCP server. You do not need to manually change TCP/IP settings unless automatic configuration failed during installation or if you have client systems running on other platforms (such as Windows, Windows NT, Solaris, or Linux). To manually reconfigure TCP/IP settings, use the settings in the table below. For more information on FriendlyShare configuration, see Configuring the FriendlyShare Manager.

Setting	Server Workstation	Client Workstation
IP Address	192.168. 0. 1	automatic
Subnet Mask	255.255.255.0	automatic
DNS	(Do not change.)	automatic
Gateway IP Address	None	(Same address as the local IP address of the workstation on which the FriendlyShare Server is running. Default is 192.168.0.1.)

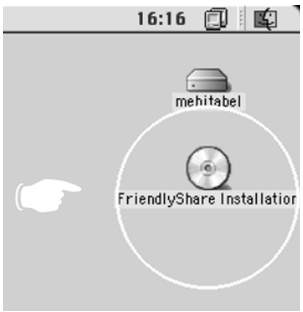
Table 1: *FriendlyShare TCP/IP Configuration*

[**NOTE:** We do not recommend using different TCP/IP settings unless you have experience with configuring TCP/IP networks.]

If you elect to statically assign addresses to your client machines, in FriendlyShare manager in the "Options" section, you must uncheck the box labeled "Enable built-in DHCP server." Then, in each client machine you must manually assign an IP address within the range 192.168.0.2 through 192.168.0.254. Each machine must have a different and unique IP address in order for
FriendlyShare to function.

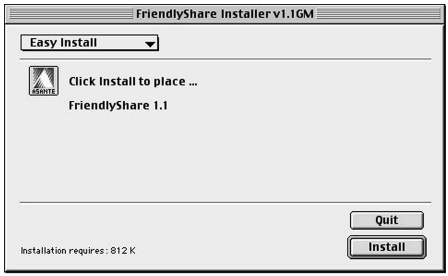
Installing FriendlyShare

Step 1: Insert the FriendlyShare CD into the CD ROM drive. An icon entitled "FriendlyShare Installation" will appear on the Desktop.



Step 2: Double Click on the icon entitled "FriendlyShare Installation." The folder will open and the Friendly-Share Installer window will appear.

Step 3: Double Click on the FriendlyShare Installer icon. The installer window will appear.



Step 4: Click on the "Install" button. FriendlyShare will install and a progress screen will appear. Once the installation is complete you will see the "Installation was successful" screen. Click "Quit". If your Macintosh does not have at least 32 MB of built-in RAM the following screen will appear.

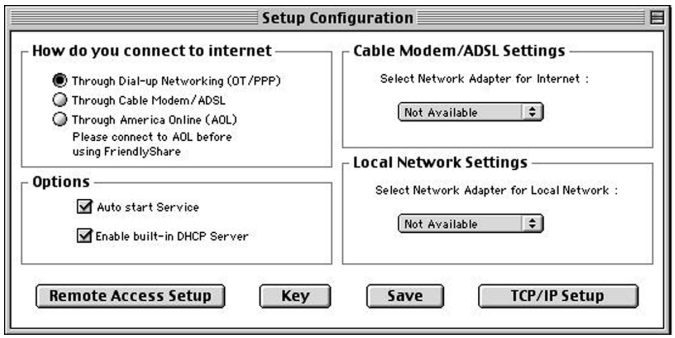
FriendlyShare will install but will not run. If you do not upgrade the memory in your computer and attempt to run FriendlyShare the following screen will appear.

The Macintosh has less than 32 MB Built-in Memory. Please upgrade to 32 MB or more memory then start the service again. Click OK to quit .
Cancel
OK

Step 5: Click on the "Quit" button. Reboot the server to activate the FriendlyShare software.

Step 6: Double-click on your hard drive icon, and open the FriendlyShare Folder.

Step 7: Click on FriendlyShare Manager to open the program. The "Setup Configuration" screen will appear.



In the Setup Configuration, you must enter preferences or values in each of the following areas:

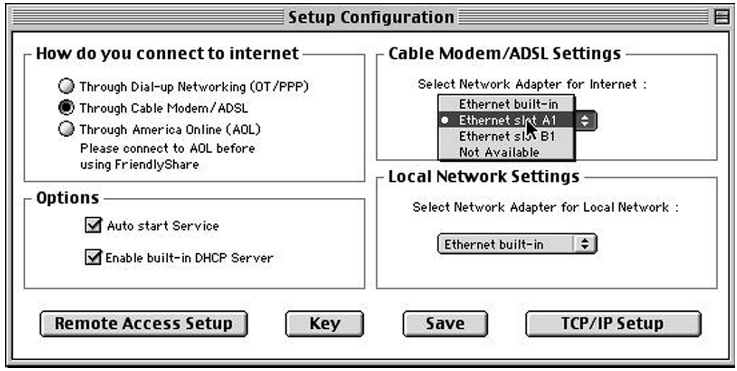
1. In the "How do you connect to the Internet" section,
   - Select the appropriate connection for your system.
   - If you are connecting through a dial up connection select the "Through Dial-up Networking" radio button and then click the "Remote Access Setup" button and configure as described below.
2. In the "Options" section,
   - If you want to automatically enable FriendlyShare each time the computer is started check the "Auto start Service" box.

[**NOTE:** This feature cannot be used with America Online (AOL). AOL must be manually launched before using FriendlyShare.]

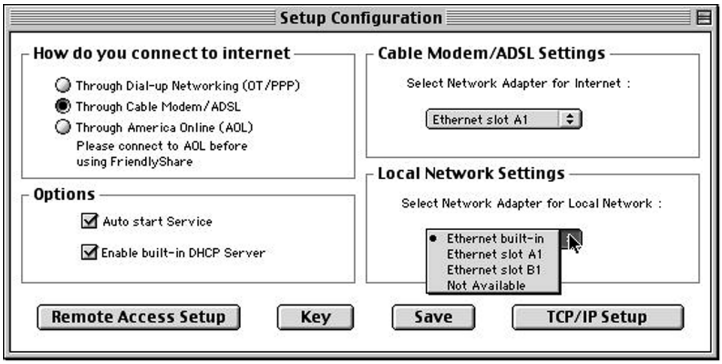
- If you want FriendlyShare to automatically assign IP numbers to your LAN client machine check the "Enable built-in DHCP Server box (recommended). If this option is not chosen, each client machine will have to be configured manually.
- If you elect to manually assign static (permanent) addresses to your client machines, in FriendlyShare Manager in the "Options" section, you must uncheck the box labeled "Enable built-in DHCP server." Then, in each client machine you must manually assign an IP address within the range 192.168.0.2 through 192.168.0.254. Each machine must have a different and unique IP address in order for FriendlyShare to function.

3. In the Cable Modem/ADSL section,
   - Select the proper Ethernet adapter for your Cable Modem. **This is important.**

[**NOTE:** Since you have two Network Interface Cards (NICs) each must be configured to its proper task. One will connect to the Internet; the other will connect to your Local Network (LAN).]

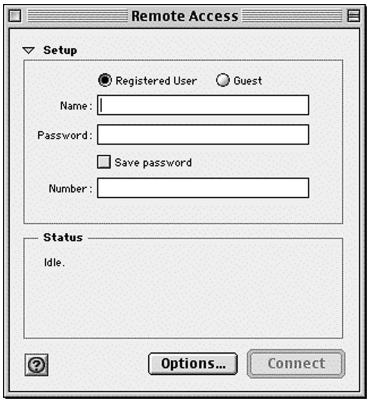


4. In the "Local Network Settings" section,
   - Select the proper Ethernet Adapter for your local area network.



[**NOTE:** Do not try to add the address of your server machine for your Local Network in the TCP/IP settings. FriendlyShare does this automatically. If you do, you will not be able to access the Internet.]

5. Click the Remote Access Setup button.
   Note: This step is not necessary for ADSL or Cable modem connections. They are always "on". Depending on your setup however, this step may be required for ISDN.
   The "Remote Access" screen will appear:



- Enter your username in the "Name" section.

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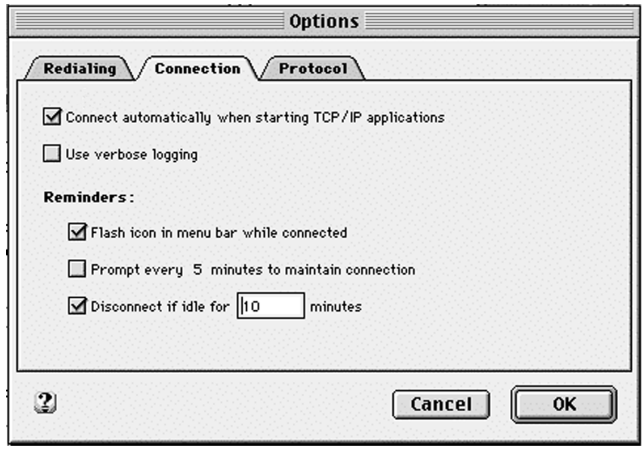
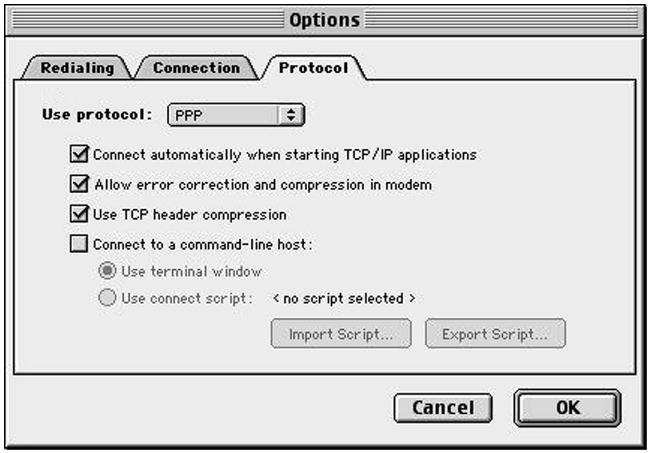
- Enter your password in the "Password" section.
- If you want to store your password so that you will not have to enter it every time you start FriendlyShare, check the "Save Password" box.
- Enter the telephone number of your Dial-up ISP exactly as you dial it.

[**NOTE:** Make sure that you enter any necessary prefixes, such as "*70" to disable call waiting, or "9" to get an outside line. Also, you may need to add a comma (,) to pause during dialing, such as "9,,18005551212". This ensures that the phone system has time to react to the commands the modem is sending.]

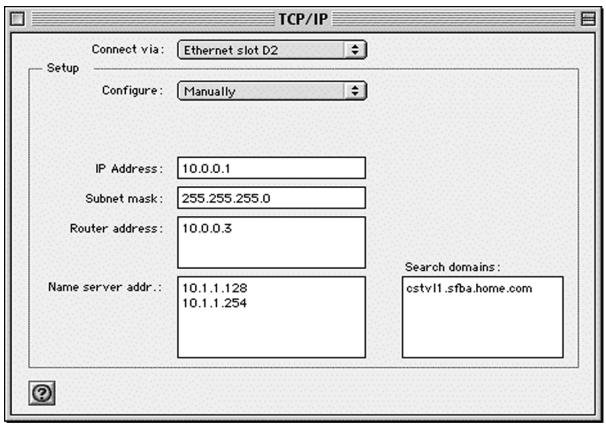
- Click "Options…"
  Configure PPP to connect automatically when starting TCP applications. The options dialog will look like one of the following. In either one, make sure that PPP is selected and that you have checked the "Connect automatically" checkbox.





Click "OK" to close the Remote Access Control Panel.

6. If you click on the TCP/IP button, the "TCP/IP" screen will appear.



Enter the settings provided by your Internet Service Provider (ISP). You will not need to change these settings unless you change your ISP.

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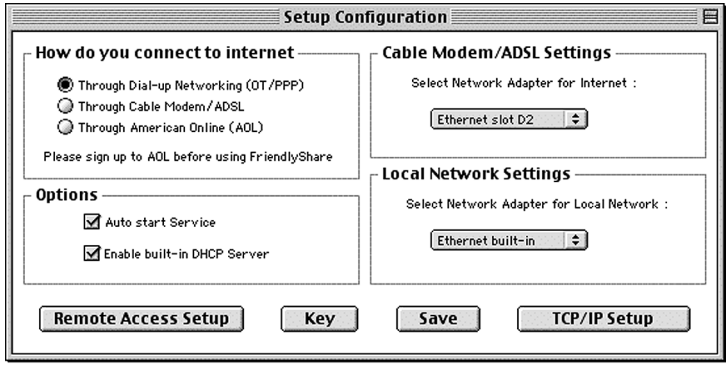
7. Click the "Key" button.
   The "Verify Serial Number" screen will appear. Enter the serial number (found on the yellow sticker on the CD-ROM envelope) and click "OK".

- Click "OK".
  The Setup Configuration screen will appear.



- Click "Save".

- From the "Services" menu, choose "Start".

Your settings will be saved and your server will be up and running.

[**NOTE:** A Serial Number must be entered in order to install FriendlyShare.]

Congratulations, you have successfully installed FriendlyShare.

Note: When you make the first connection from a client, you may receive a message that the connection has timed out. This delay is normal and if you try again the connection will succeed.

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Chapter 3: Configuring the Client Computers

Introduction

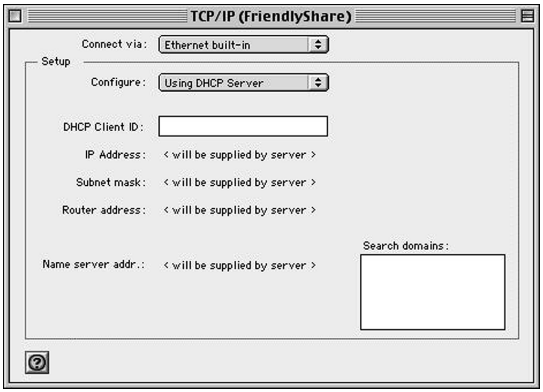
Each of the other computers on your LAN will operate as a client of the server.

To connect to the Internet through the FriendlyShare server, each computer needs to be assigned an IP address. The easiest way to configure an IP address is by using the built-in DHCP (Dynamic Host Configuration Protocol) server provided by the FriendlyShare server.

Configuration for MacOS and Windows95 and 98 clients is shown below.

MacOS Clients

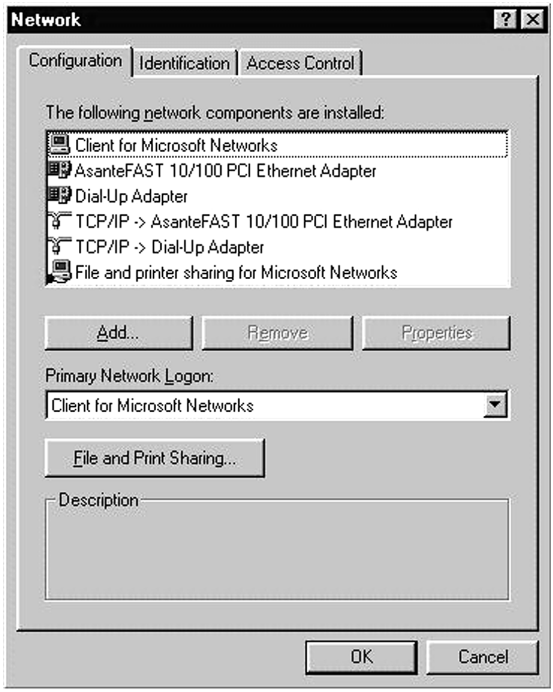
To configure a Macintosh running Open Transport Networking (most recent Macs), go to the Apple Menu, select Control Panels, and open the TCP/IP control panel.



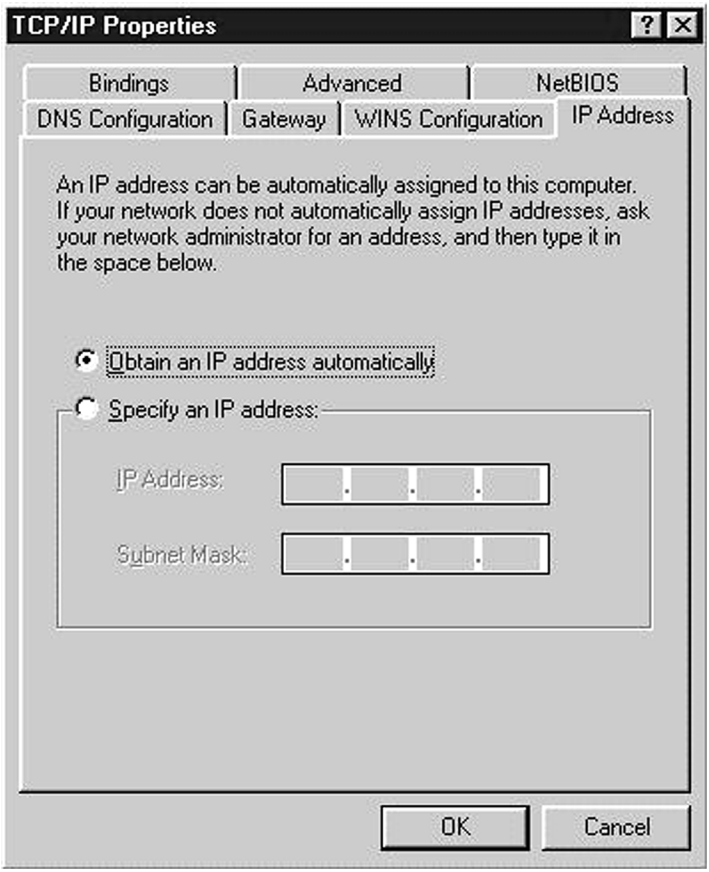
1. Under "Connect via:" select the Ethernet port that connects the Mac to the LAN.
2. Under "Configure" select "Using DHCP Server"
3. Close the Control Panel and select "Save" when prompted.

Windows 95/98 Clients

1. Click the Start menu, and select Settings, Control Panel.
2. Double-click the Network Icon.



- Locate the TCP/IP line that is linked to the network card you use to communicate with the server. Highlight that line and click Properties.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
Subnet Mask:
OK
Cancel

- Click the radio button "Obtain an IP address automatically".
- Click "OK" and restart your computer when prompted.

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4

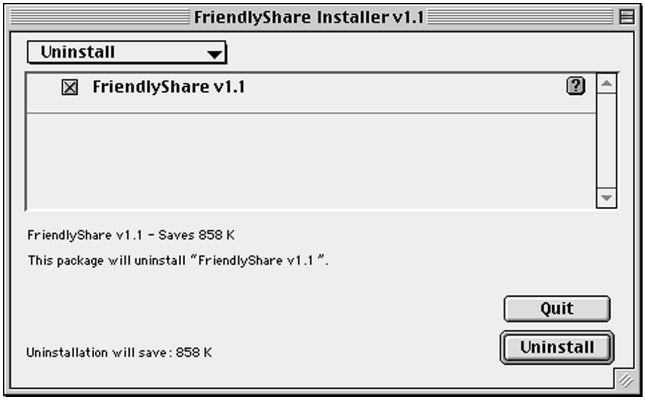
Chapter 4: Uninstalling FriendlyShare

Step 1: Insert the FriendlyShare CD into the CD ROM drive. An icon entitled "FriendlyShare Installation" will appear on the Desktop.

Step 2: Double Click on the icon entitled "FriendlyShare Installation." The folder will open and the Friendly-Share Installer window will appear.

Step 3: Double Click on the FriendlyShare Installer icon. The installer window will appear.

Step 4: Change The Install to Uninstall, check the box marked "FriendlyShare v1.1", and click the "Uninstall" button.



Step 5: FriendlyShare will uninstall and the "UnInstalling" screen will appear. The installer will notify you that uninstallation is complete. Click "Quit".

If you attempt to remove FriendlyShare while the program is running, a screen will appear telling you that "Some items to be moved or replaced by this installer could not be deleted because they were locked or busy."

Click "OK". Rebooting the computer will finish removing the FriendlyShare files.

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Chapter 5: Other FriendlyShare Features

1. Option

This section of the toolbar allows the following:

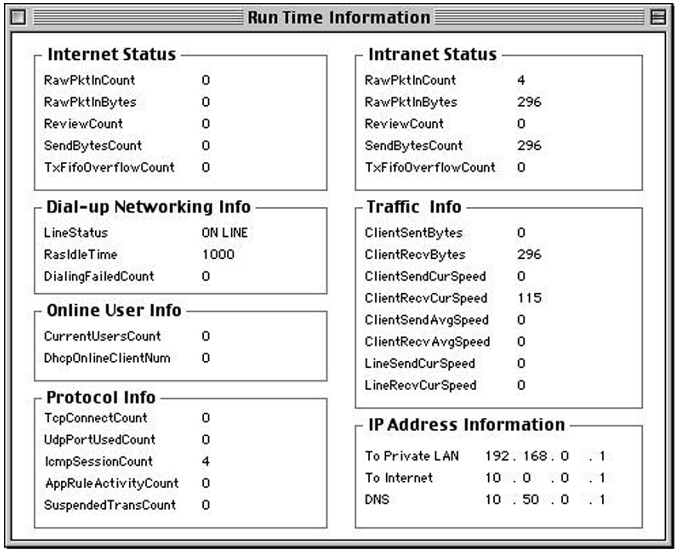
- changes in the setup configuration that you made during the installation process.
- changes in your dial-up service access.
  These will be changed only if you change your
  1. Dial-up service.
  2. Username.
  3. Password.
  4. Options concerning redialing, the type of connection or the protocol you are using.
- Changes in your TCP/IP settings.
  These would only be changed if you changed your Cable Modem/ADSL service provider.

2. Service

This command allows you to Start or Stop the FriendlyShare server software operation. If you checked the auto-start service box during setup the only option available to you will be to stop the service after it has been automatically started during the server's boot up sequence.

3. Status

The Status screen allows you to monitor the activity of your FriendlyShare server.



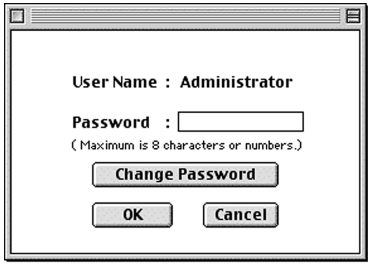
4. Tools

- The Black List & The White List.
  FriendlyShare provides the opportunity for you to block the access to certain Internet sites by using the Black list, or alternately to allow the client workstations to access only certain sites by means of the White list.

Use of these tools is straightforward.

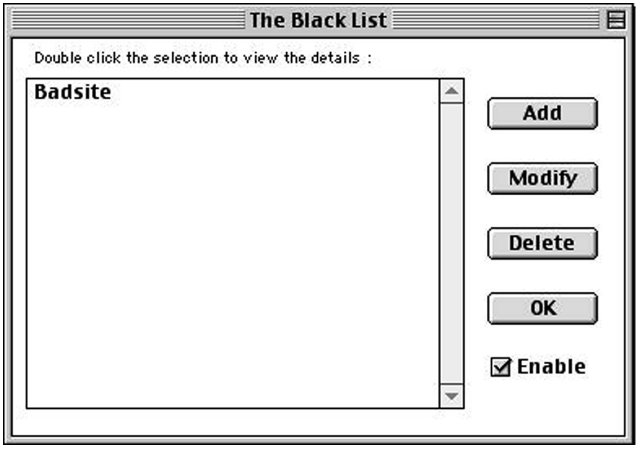
- Click on the Toolbar "Tools" option.
- Click on either the Black List, or the White List.

The following screen will appear:

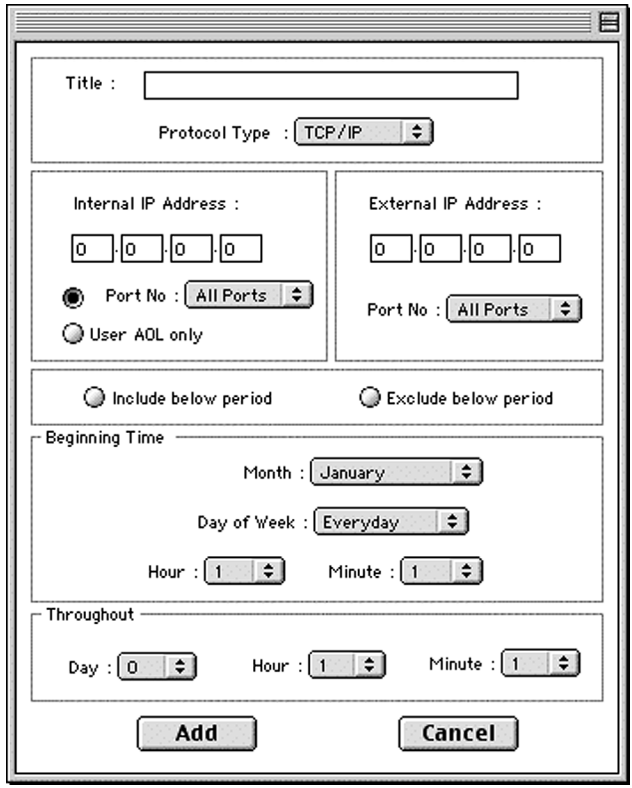


- To set your password, click on Change Password.
  Leave the "Old Password" area blank.
- Enter your new password.
- If you don't want to Password protect the Black List or the White List, just click "OK".

The Black List or the White List screen will appear:



- Check the "Enable" box to access this feature of FriendlyShare.
- To Add items, Modify existing items, or Delete items from the list click on the appropriate button.
- To add a site to the list click Add. The following screen will appear:



- Enter a name for the Blacklist or Whitelist entry. You must enter the IP address of the internet site that you wish to add to the White List or the Black List. Click "Add".
- To Delete a Web Page from your White or Black List, select the name of the Web Page you wish to delete then click the "Delete" button. A screen will appear describing the entry to be deleted. Click "Delete" to confirm.
- To modify an item on the Black or White List, select the item to be modified. Click on the "Modify" button. Make the appropriate modifications and click the "Modify" button.

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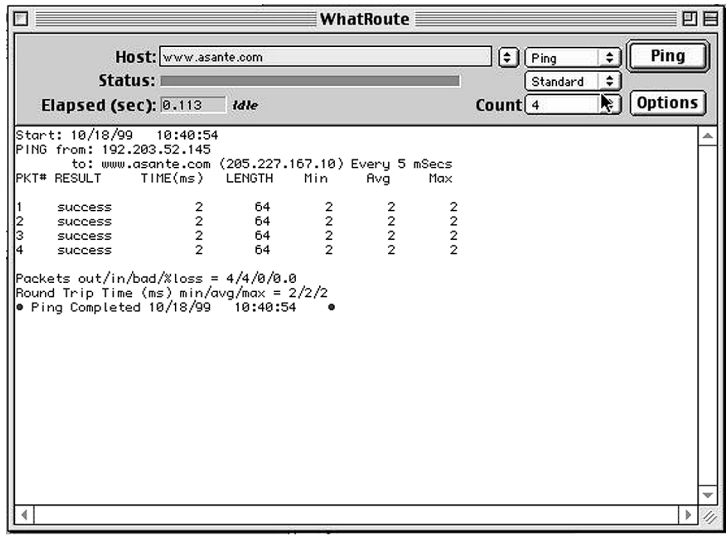
Chapter 6: Troubleshooting Your Installation & How To Get Support

If you encounter problems during/after installation:

- Verify that the Server is able to dial up and access the ISP.
  If the Server is unable to access the ISP, the problem is not with the FriendlyShare software. Troubleshoot the Server/ISP connection before continuing.
- Verify that all hardware and cabling have been installed correctly.
- Verify that there is a link on all Ethernet connections.
  If a card or port (if using a hub or switch) does not have a link LED lit, the following could be the problem:
  1.The port is defective,
  2. Ethernet cable is not the correct type or is defective,
  3. The card or built-in Ethernet is defective or,
  4. The driver is not correctly installed.
- Verify that you successfully completed all installation steps on the server and any client machines.
- If you manually configured TCP/IP, verify that you successfully completed all configuration steps on the server and any client machines.
- Test the connection from a client to the Server by launching WhatRoute (included on the installation CD ROM) and entering the IP address of the FriendlyShare Server (192.168.0.1).

[**NOTE:** Be sure that WhatRoute is in the "Ping" mode, and not its default "Trace" mode.]

You should receive a reply (not a timeout) from the server.



If you receive a timeout, verify that the cable, hardware and jacks are functional between the client and the Server. If you are in a LAN involving a hub or switch, you may use the crossover cable supplied with the FriendlyShare software to connect a client machine directly to the server.

- Test the ISP connection to the Internet by launching WhatRoute and entering the web address of the Asanté Website (www.asante.com). You should hear the modem dialing and/or you should receive a reply (not a timeout). If (www.asante.com) times out, ping the IP address of the Website as an alternative (205.267.167.10). If you receive a response using the IP address, but not the name, you may have a DNS problem. Contact your ISP for support.
- If all of the above steps fail, there may be a hardware failure. Contact Asanté Technical Support with the results of your troubleshooting.

Getting Support

Before contacting Asanté Technical Support, make sure you have followed the steps in Troubleshooting Your Installation. Technical Support is available from Asanté in the following ways:

World Wide Web:	http://www.asante.com
Telephone:	(801) 566-8991
Fax:	(801) 566-3787
Internet mail:	support@asante.com
Bulletin Board Service:	(408) 432-1416
FTP Archive:	ftp.asante.com

Technical Support Hours:

6:00 A.M. to 5:00 P.M. Mountain Standard Time, Monday - Friday

Visit Asanté at www.asante.com
Visit the Asanté Store at www.buyasante.com

Main Corporate Telephone Numbers
800-662-9686 Home/Office Solutions
800-303-9121 Enterprise Solutions
408-435-8388

Technical Support – Worldwide
801-566-8991

Technical Support Fax
801-566-3787

Technical Support Bulletin Board System
408-432-1416

Asanté's Online Store – United States callers only
888-491-4067

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